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ſ	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
٠	10/829,317	04/21/2004	Wen-Kuen Chen	E0523-00059	5674
	8933 DUANE MORI	7590 12/20/2000 RIS LLP	6	EXAMINER	
	IP DEPARTMENT			DINH, TRINH VO	
	30 SOUTH 177 PHILADELPH	TH STREET IA, PA 19103-4196	·	ART UNIT	PAPER NUMBER
		•		2821	
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Ĺ	SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	PAPER	
_	3 MO	NTHS	12/20/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)					
		10/829,317	CHEN ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Trinh Vo Dinh	2821					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠	Responsive to communication(s) filed on <u>14 November 2006</u> .							
· · · · · · · · · · · · · · · · · · ·		action is non-final.						
3)□	Since this application is in condition for allowar	nce except for formal mat	ters, prosecution as to the	merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	Disposition of Claims							
4)🖂	4) Claim(s) 1,2,5-11,14,17 and 18 is/are pending in the application.							
	4a) Of the above claim(s) is/are withdraw	vn from consideration.						
5)	5) Claim(s) is/are allowed.							
6)⊠	6) Claim(s) 1-2,5-11,14,17-18 is/are rejected.							
7)	Claim(s) is/are objected to.							
8)[8) Claim(s) are subject to restriction and/or election requirement.							
Applicati	Application Papers							
9) The specification is objected to by the Examiner.								
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) 🗌	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119								
_	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:		§ 119(a)-(d) or (f).					
	1. Certified copies of the priority documents							
	2. Certified copies of the priority documents		• • • • • • • • • • • • • • • • • • • •					
	3. Copies of the certified copies of the prior		received in this National (Stage				
* 0	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment	• •	 □	(DTO 110)					
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date					
3) 🔲 Inform	nation Disclosure Statement(s) (PTO/SB/08)	5) D Notice of I	nformal Patent Application					
Paper S. Patent and To	No(s)/Mail Date	6) Other:	<u> </u>					

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DETAILED ACTION

This is a response to amendment filed 11/14/2006. Applicant's arguments with respect to 102 rejections based on Chao have not been persuasive. Therefore, the rejections of claims 1-2 based on Chao are retained and repeated for the following reasons. In addition, the amended claims 1 and 14 have been rejected under 102(b) by a new reference as discussed below.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-2, 5 and 11 remain rejected under 35 U.S.C. 102(e) as being anticipated by Chao et al (US 7,030,552 of record).

Respecting claims 1 and 5, Chao discloses organic light-emitting diode structures (Figs. 1-2) forming an array, each of the organic diode structures comprising first and second anodes (110, 110 in Fig. 1, or 210, 211 in Fig. 2), first and second organic light emitting layers (120, 120, or 220, 221) disposed between the first and second anodes, and a common electrode (130 or 230) disposed between the first and second organic light-emitting layers (103), wherein the first light-emitting layer is for substantially emitting light in a first direction and the second organic light-emitting layer is for substantially emitting light in a second direction opposite to the first direction (cols 3-4).

Respecting claim 2 and 11, Chao discloses light being emitted from at least

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one of the first and second organic light-layers (120, 120, or 220, 221) when an electric current is passed between one of the first and the second anodes and common electrode.

3. Claims 1, 2, 5 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Yoshimura Motomu (JP 2000-058260).

Respecting claims 1 and 5, Yoshimura discloses, in Figs. 1-2 and abstract, organic light-emitting diode structures forming an array, each of the organic diode structures comprising first and second anodes (1, 1), first and second organic light emitting layers (2,2) disposed between the first and second anodes, and a common electrode (3) disposed between the first and second organic light-emitting layers (2, 2), wherein the first light-emitting layer is for substantially emitting light in a first direction and the second organic light-emitting layer is for substantially emitting light in a second direction opposite to the first direction (abstract).

Respecting claim 2 and 11, Yoshimura discloses light being emitted from at least one of the first and second organic light-layers (2, 2) when an electric current is passed between one of the first and the second anodes (1, 1) and the common electrode (3).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 6-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chao or Yoshimura in view of Wang (US 6,043,478 of record).

Respecting claim 6, Chao or Yoshimura discloses every feature of the claimed invention

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except transistors. Wang discloses a first transistor (M1) coupled to each of the organic light-emitting diode structures (Fig. 4), and a second transistor (M2) coupled to each of the organic light-emitting diode structures. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Chao or Yoshimura's display with transistors as taught by Wang in order to drive pixels of organic structures.

Respecting claim 7-10, Wang discloses, in Fig. 4, the first transistor (S 1) being coupled to one of the first and the second anodes of the organic light-emitting diode structures while the second transistor (M2) being coupled to the other one of the first and the second anodes of the organic light-emitting diode structures. Wang further discloses a third transistor (M4, M3) coupled to the first and the second transistors (S 1, S2), the first and the second transistors drive the organic light-emitting diode structures, and the third switch (M3, M4) switching the first and second transistors (M1, M2).

6. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kontogeorgakis et al (US 6,822,611 of record) in view of Chao or Yoshimura.

Respecting claim 14, Kontogeorgakis discloses, in Fig. 4, a telecommunication device comprising a main body (12), a flip-up door (14), and a display (16) beneath the. flip-up door. However, Kontogeorgakis does not suggest the display comprising diode structures which each structure including anodes, organic light-emitting layers and an electrode. Chao or Yoshimura discloses the display comprising the organic light-emitting diode structures as discussed above in claim 1. It would have been obvious to one having ordinary skill in the art at the time the invention was made to employ Komatsu's structure to communication

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device of Kontogeorgakis. Doing so would reduce display size to reduce an emission area (Komatsu: col. 3, lines 3-5).

7. Claims 17-18 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Kontogeorgakis as modified by Chao or Yoshimura, and further in view of Wang (US 6,043,478 of record).

Respecting claim 17, Kontogeorgakis as modified by Chao or Yoshimura discloses every feature of the claimed invention except transistors. Wang discloses a first transistor (M1) coupled to each of the organic light-emitting diode structures (Fig. 4), and a second transistor (M2) coupled to each of the organic light-emitting diode structures. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Chao's display with transistors as taught by Wang in order to drive pixels of organic structures.

Respecting claim 18, Wang further discloses a third transistor (M4, M3) coupled to the first and the second transistors (S 1, S2).

Response to the arguments

- With respect to claims 1, 5 and 14, Applicant argues that the Chao reference fails to teach a common electrode. The examiner respectively disagreed. Chao discloses a common electrode (130 in Fig. 1, or 230 in Fig. 2) disposed between the first and second organic light-emitting layers (120 in Fig. 1, or 220 in Fig. 2). Since Chao discloses all claimed limitations. Therefore, 102 rejections of claims 1, 5 and 14 are proper.
- 8. With respect to the rejections of dependent claims 2, 6-11 and 17-18 which employing the additional teaching of Chao and Wang, Applicant has not offer any specific argument

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thereagainst. Accordingly, no further comments concerning the rejections of the dependent claims are necessary.

Conclusion

8. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Inquiry

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trinh Vo Dinh whose telephone number is (571) 272-1821. The examiner can normally be reached on Monday to Friday from 9:30AM to 6:00PM. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art unit 2821 December 12, 2006

TRINH DINH
PRIMARY EXAMINER